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71 Applicant: **International Business Machines Corporation**
Old Orchard Road
Armonk, N.Y. 10504(US)

72 Inventor: **Smith, Peter Rigby**
1 Carpenters
Alresford Hampshire(GB)

74 Representative: **Appleton, John Edward**
IBM United Kingdom Limited Intellectual
Property Department Hursley Park
Winchester Hampshire SO21 2JN(GB)

54 **Security module for an electronic funds transfer system.**

57 A security module for use in an electronic funds transfer terminal is contained in a tamper-resistant housing. The module has a PIN pad and is designed to encrypt secret data, such as users personal identity numbers (PINs), so that other terminal processes cannot gain access to it. The encryption functions are carried out in a security controller which includes its own microprocessor and encryption/decryption unit.

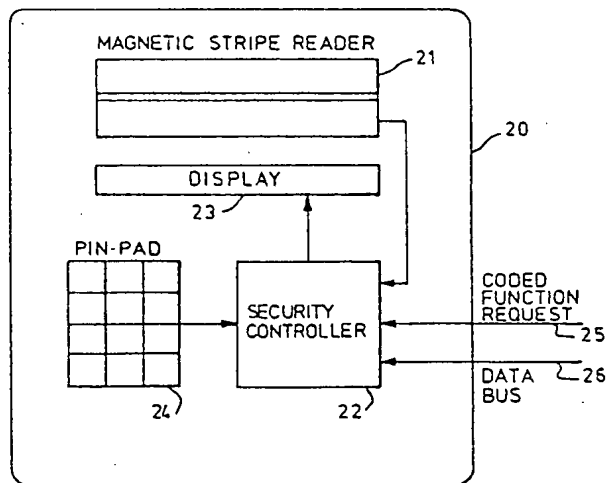


FIG. 2



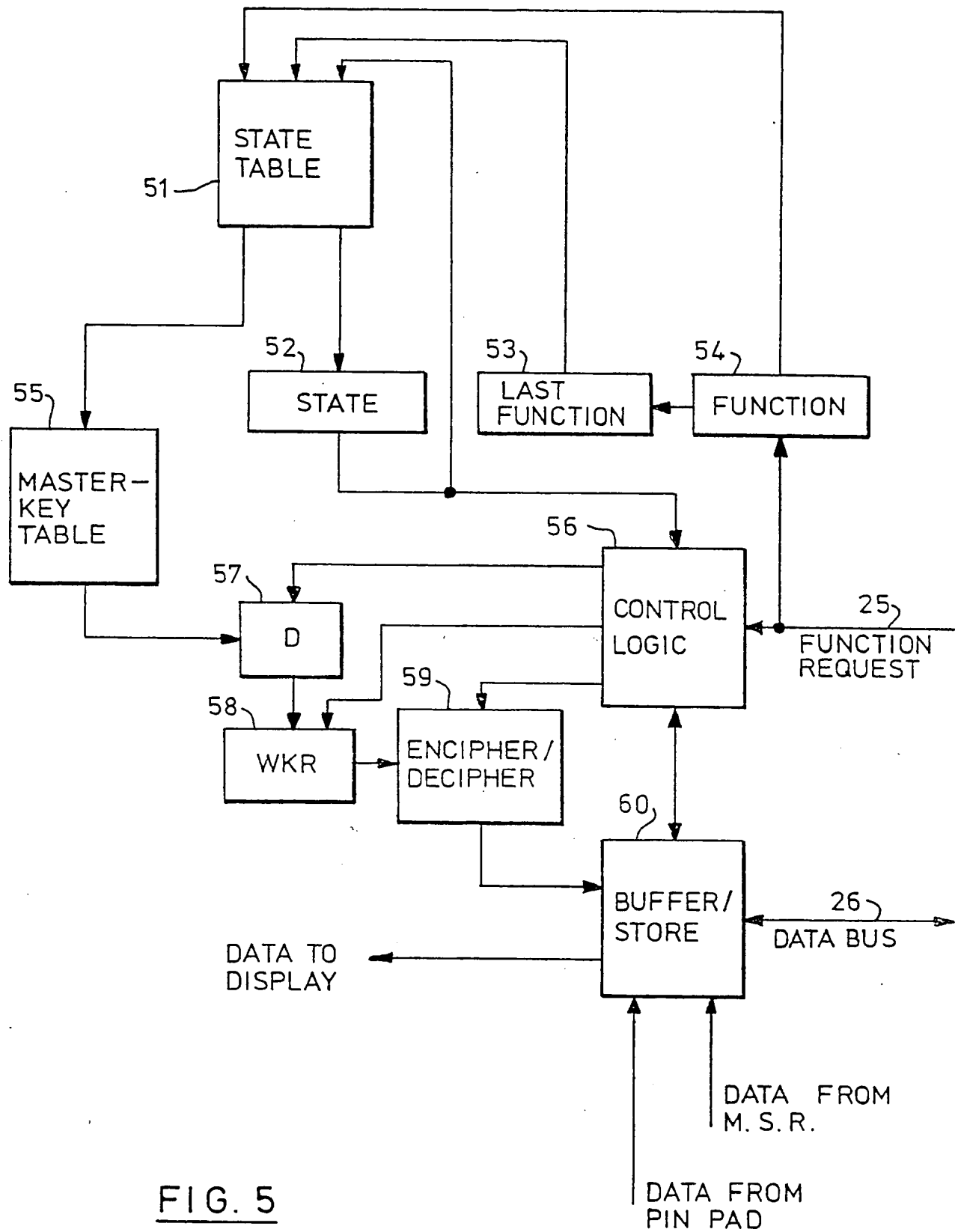
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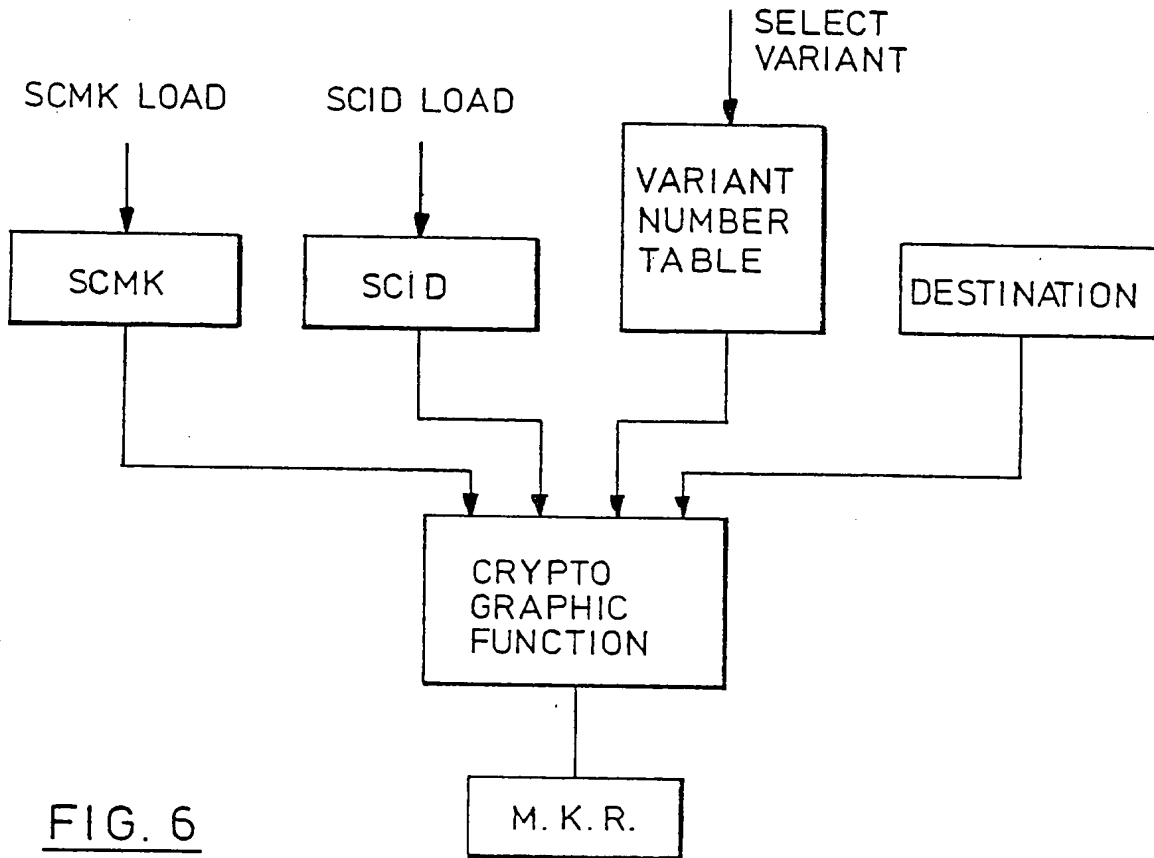
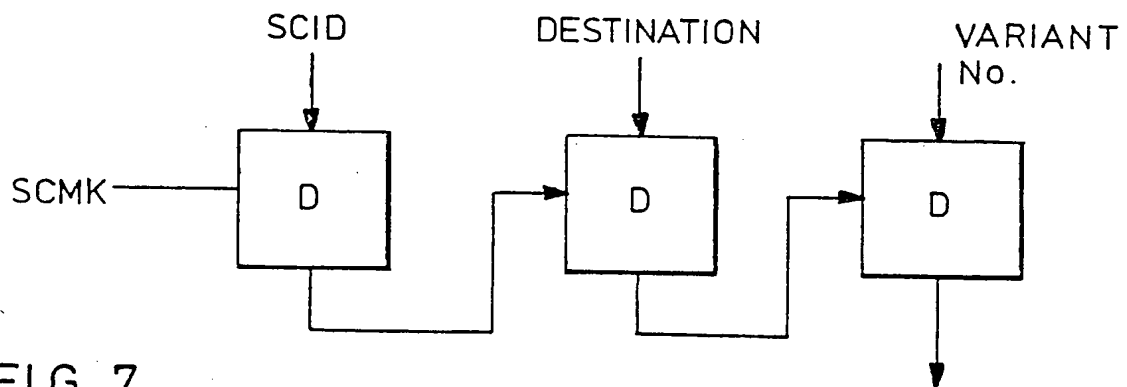
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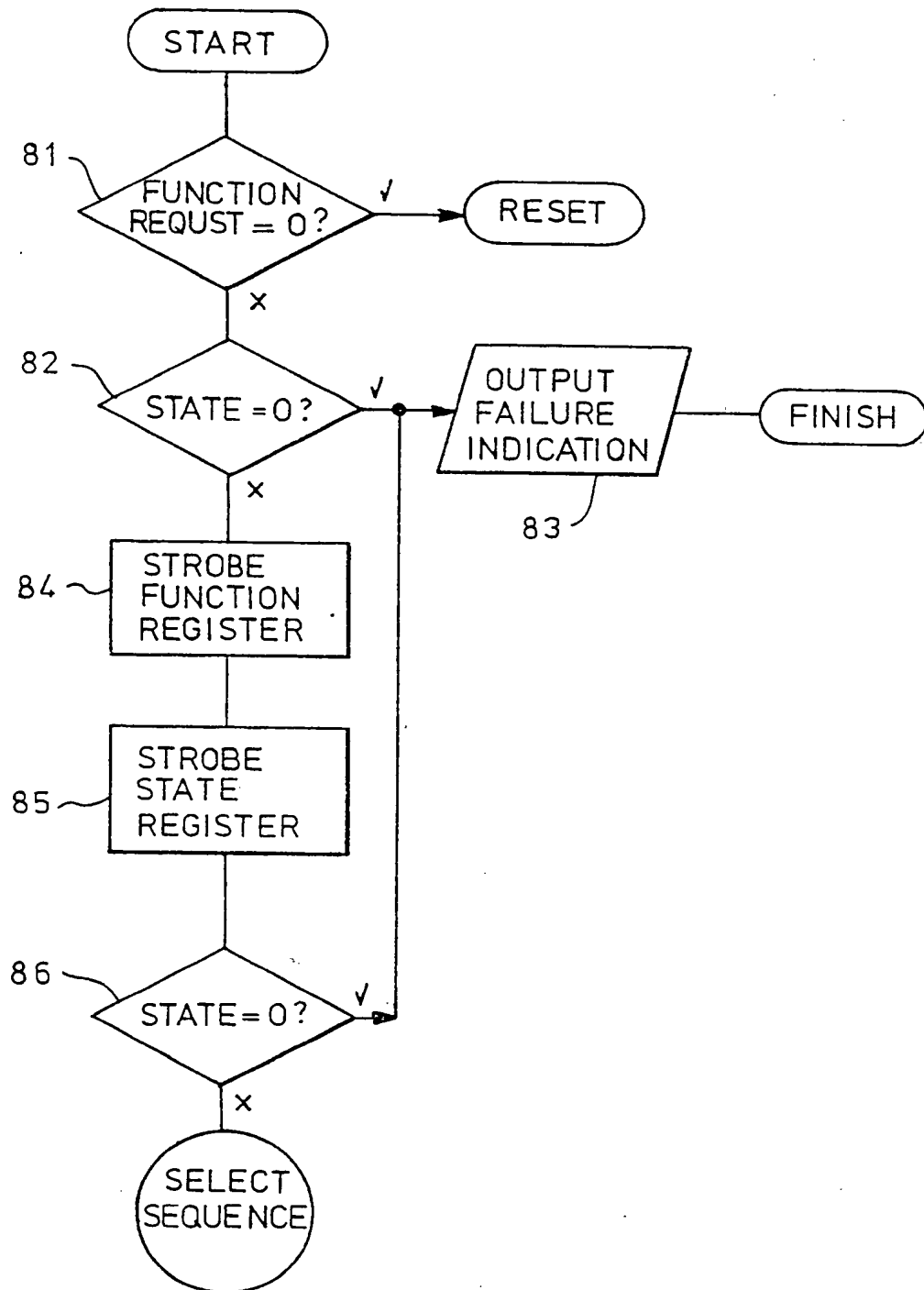
Application number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 85308823.5
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	US - A - 4 408 203 (CAMPBELL) * Totality *	1, 3, 5, 6	G 07 F 7/10
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A	EP - A2 - 0 063 794 (SIEMENS AKTIENGESELLSCHAFT) * Totality *	1, 3	
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A	EP - A2 - 0 117 907 (GABE) * Totality *	1	
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A	EP - A1 - 0 008 033 (BEST) * Totality *	1	

			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			G 07 F 7/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 08-08-1988	Examiner BEHMER
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	



FIG. 6FIG. 7

FIG. 8

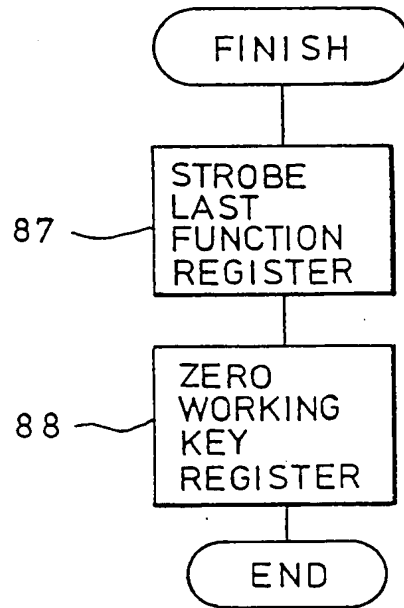


FIG. 9

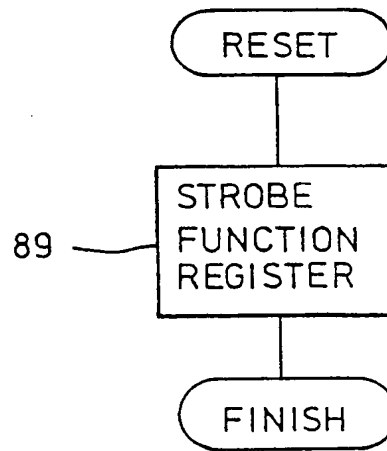
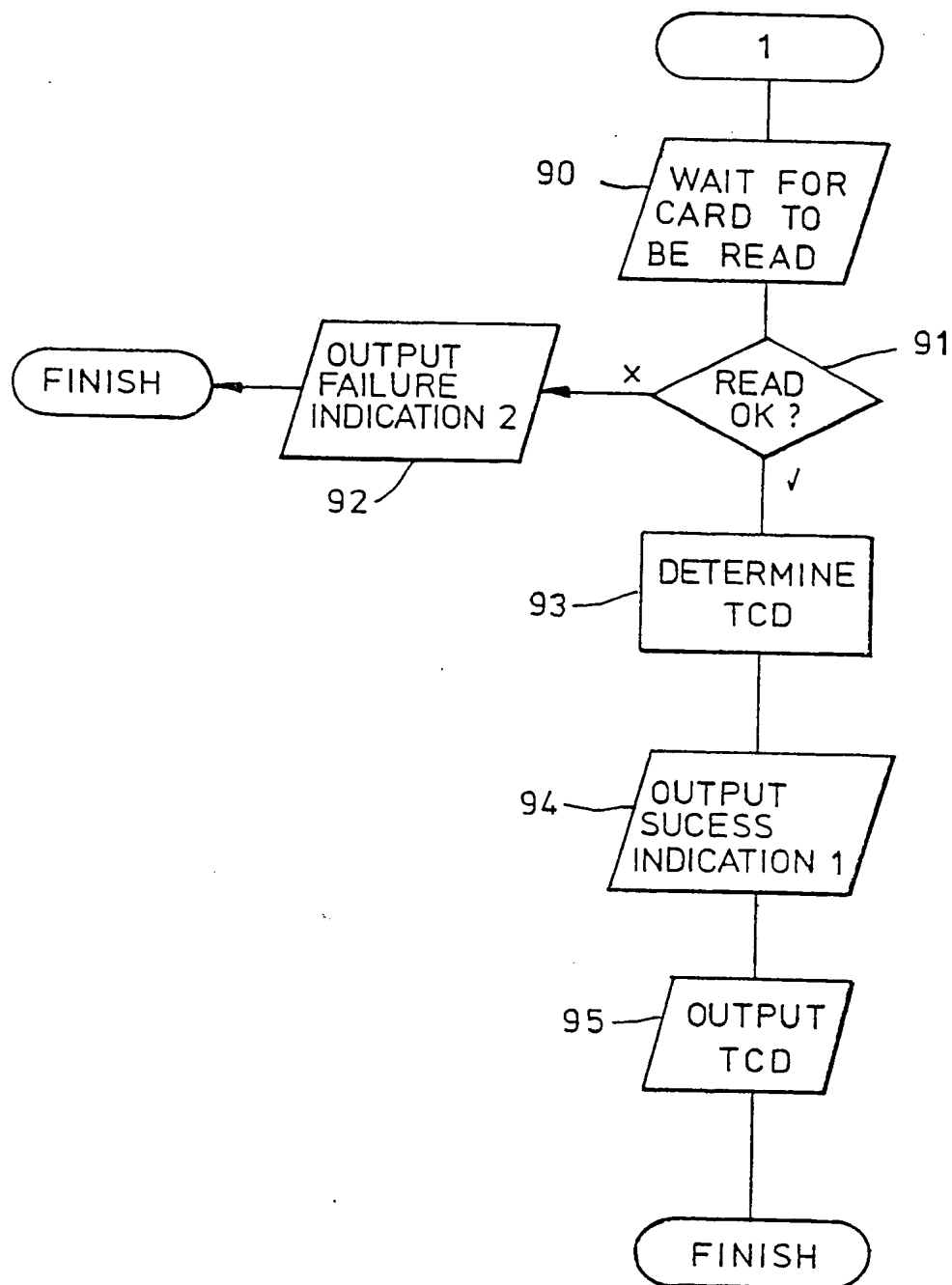


FIG. 10

FIG. 11